

MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS #: 31452

PRESLIA 100

| Date of the previous version: not applicable | Revision Date: 2012-08-08 | Version 1 |
|--|--------------------------------|-------------|
| 1. IDENTIFICATION OF THE SUBSTANCE | E/MIXTURE AND OF THE COMPANY/L | JNDERTAKING |

1.1. Product identifier

| Product name | PRESLIA 100 |
|------------------------|-------------|
| Number | 691 |
| Pure substance/mixture | Mixture |

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Turbine oil.

1.3. Details of the supplier of the safety data sheet

| Supplier | TOTAL LUBRIFIANTS |
|----------|-----------------------------|
| | 562 Avenue du Parc de L'ile |
| | 92029 Nanterre Cedex |
| | Tél: +33 (0)1 41 35 40 00 |
| | Fax: +33 (0)1 41 35 84 71 |

For further information, please contact:

| Contact Point | HSE |
|----------------|------------------------|
| E-mail Address | rm.msds-lubs@total.com |

1.4. Emergency telephone number

+33 1 49 00 00 49 (24h/24, 7d/7)

France - ORFILA (INRS) Tél : +33 (0)1 45 42 59 59

In France : - PARIS : Hốpital Fernand Widal 200, rue du Faubourg Saint-Denis 75475 Paris Cédex 10, Tel : 01.40.05.48.48. -MARSEILLE : Hopital Salvator, 249 bd Ste Marguerite 13274 Marseille cedex 5, Tel : 04.91.75.25.25. - LYON : Hopital Edouard Herriot, 5 place d'Arsonvol, 69437 Lyon cedex 3, Tel : 04.72.11.69.11. - NANCY : Hopital central, 29 Av du Mal De Lattre de Tassigny, 54000 Nancy, Tel : 03.83.32.36.36 ou le SAMU : Tel (15)

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

For the full text of the H-Statements mentioned in this Section, see Section 2.2.

DIRECTIVE 67/548/EEC or 1999/45/EC

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For the full text of the R-phrases mentioned in this Section, see Section 16



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The substance/mixture is non-dangerous in accordance with Directive(s) 67/548/EEC with amendments and/or 1999/45/EC with amendments **Symbol(s)**

Not Classified

2.2. Label elements

Labelled according to

Not classified/No labelling required

R-phrase(s) none

S-phrase(s) none

2.3. Other hazards

| For the full text of the D advance mentioned in this Ocetion, and Ocetion 40 | | | |
|--|---|--|--|
| Additional information | Product containing mineral oil with less than 3% DMSO extract as measured by IP 346 | | |
| Hazardous ingredients | Do not contain hazardous substance nor substance with european workplace exposure limits in concentration above regulatory thresholds | | |
| 3. COMPOSITION/INFORMATION ON INGREDIENTS | | | |
| Environmental properties | Should not be released into the environment. | | |
| Physical-Chemical Properties | Contaminated surfaces will be extremely slippery. | | |

For the full text of the R-phrases mentioned in this Section, see Section 16 For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1. Description of first-aid measures

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| General advice | IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE. |
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| Eye contact | Rinse thoroughly with plenty of water, also under the eyelids. |
| Skin contact | Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse. |



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| nhalation | Move to fresh air. |
| ngestion | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately. |
| 4.2. Most important sympt | oms and effects, both acute and delayed |
| Eye contact | Not classified. |
| Skin contact | Not classified. |
| Inhalation | Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system. |
| Ingestion | Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |
| 4.3. Indication of immedia | te medical attention and special treatment needed, if necessary |
| Notes to physician | Treat symptomatically. |
| 5. FIRE-FIGHTING MEASUR | ES |
| 5.1. Extinguishing media | |
| Suitable Extinguishing Media | Carbon dioxide (CO 2). ABC powder. Foam. Water spray or fog. |
| Unsuitable Extinguishing Media | Do not use a solid water stream as it may scatter and spread fire. |
| 5.2. Special hazards arisin | g from the substance or mixture |
| Special Hazard | Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. |
| 5.3. Advice for fire-fighters | 5 |
| Special protective equipment for fire-fighters | Wear self-contained breathing apparatus and protective suit. |
| | Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing |

6.1. Personal precautions, protective equipment and emergency procedures



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| General Information | Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. |
| 6.2. Environmental precau | itions_ |
| General Information | Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained. |
| 6.3. Methods and material | s for containment and cleaning up |
| Methods for cleaning up | Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. |
| 6.4. Reference to other se | ctions_ |
| Personal Protective Equipment | See Section 8 for more detail. |
| Waste treatment | See section 13. |
| 7. HANDLING AND STORAG | βE |
| 7.1. Precautions for safe h | handling |
| Advice on safe handling | When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. |
| Prevention of fire and explosion | Take precautionary measures against static discharges: Ground/bond containers, tanks and transfer/receiving equipment. |
| Hygiene measures | Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets. |

7.2. Conditions for safe storage, including any incompatibilities

| Technical measures/Storage conditions | Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental |
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| | emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture. |



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| Materials to Avoid | Strong oxidizing agents. |
| 7.3. Specific end uses | |
| 8. EXPOSURE CONTROLS/F | PERSONAL PROTECTION |
| 8.1. Control parameters | |
| Exposure limits | oil mist : 10mg/m ³ , for 15 minutes; oil mist : 5mg/m ³ , for 8 hours |
| Legend | See section 16 |
| 8.2. Exposure controls | |
| Occupational Exposure Controls | |
| Engineering Measures | Apply technical measures to comply with the occupational exposure limits. When working i confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment. |
| Personal Protective Equipment | |
| General Information | If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied. |
| Respiratory protection | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (E 141). The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses. |
| Eye Protection | If splashes are likely to occur, wear:. Safety glasses with side-shields. |
| Skin and body protection | Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing. |
| Hand Protection | Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. |

Environmental exposure controls

General Information

The product should not be allowed to enter drains, water courses or the soil.



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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| Color Physical State @20°C Odor | | yellow liquid Characteristic | |
|--|--|--|---|
| Property pH Boiling point/boiling range | Values | Remarks Not applicable Not applicable | <u>Method</u> |
| Flash point | > 220 °C > 392 °F | | Cleveland Open Cup (COC) Cleveland Open Cup (COC). |
| Evaporation rate Flammability Limits in Air Vapor Pressure Vapor density Density Water solubility Solubility in other solvents logPow Autoignition temperature | 887 kg/m³ | No information available No information available No information available @ 15 °C Insoluble No information available No information available No information available | |
| Viscosity, kinematic Explosive properties Oxidizing Properties Possibility of hazardous reactions 9.2. Other information | 100 mm2/s Not explosive Not applicable Not applicable | @ 40 °C | ISO 3104 |

10. STABILITY AND REACTIVITY

10.1. Reactivity

General Information No

No information available.

10.2. Chemical stability

Stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous Reactions None under normal processing.

10.4. Conditions to Avoid

Conditions to Avoid

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Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.



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10.5. Incompatible Materials

Materials to Avoid Strong oxidizing agents.

10.6. Hazardous Decomposition Products

Hazardous Decomposition Products None under normal use.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity Local effects Product Information

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| Skin contact | . Not classified. |
|--|--|
| Eye contact | . Not classified. |
| Inhalation | . Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system. |
| Ingestion | . Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |
| Acute toxicity - Component Information | ation |
| Sensitization | |
| Sensitization | Not classified as a sensitizer. |
| Specific effects | |
| Carcinogenicity Mutagenicity Reproductive toxicity Repeated Dose Toxicity | This product is not classified carcinogenic. This product is not classified as mutagenic. This product does not present any known or suspected reproductive hazards. |
| Subchronic toxicity | No information available. |
| Target Organ Effects (STOT) | |
| Target Organ Effects (STOT) | No information available. |
| Other information | |
| Other adverse effects | Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing). |



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12. ECOLOGICAL INFORMATION

12.1. Toxicity

Not classified.

Acute aquatic toxicity - Product Information No information available.

Acute aquatic toxicity - Component Information No information available.

Chronic aquatic toxicity • Product Information No information available.

Chronic aquatic toxicity - Component Information No information available.

Effects on terrestrial organisms

No information available.

12.2. Persistence and degradability

General Information

No information available.

12.3. Bioaccumulative potential

| Product Information | No information available. | |
|---|---------------------------|--|
| logPow Component Information 12.4. Mobility in soil | No information available | |

Soil Given its physical and chemical characteristics, the product generally shows low soil mobility.

Air Loss by evaporation is limited.

Water Insoluble. The product spreads on the surface of the water.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.



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| 12.6. Other adverse effect | ets | |
|--|---|--|
| General Information | No information available. | |
| 13. DISPOSAL CONSIDERA | TIONS | |
| 13.1. Waste treatment me | ethods | |
| Waste from Residues / Unused Products | Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. Where possible recycling is preferred to disposal or incineration. After use, this oil must be sent to a licensed waste oil facility. Incorrect disposal of used oil poses a risk to the environment. Mixture with other waste types such as solvents, brake- and cooling liquids is forbidden. | |
| Contaminated packaging | Empty containers should be taken to an approved waste handling site for recycling or disposal. | |
| EWC Waste Disposal No. | The following Waste Codes are only suggestions:. 13 02 05. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used. | |
| 14. TRANSPORT INFORMATION | | |
| ADR/RID | Not regulated | |
| IMDG/IMO | Not regulated | |
| ICAO/IATA | Not regulated | |
| ADN_ | Not regulated | |
| | | |

15. REGULATORY INFORMATION

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<u>15.1.</u> Safety, health and environmental regulations/legislation specific for the substance or <u>mixture</u>

European Union

International Inventories

EINECS/ELINCS

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TSCA

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| EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances | | | | |
| TSCA - United States Toxic Substances Control Act Section 8(b) Inventory | | | | |
| DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List | | | | |
| ENCS - Japan Existing and New Chemical Substances | | | | |
| IECSC - China Inventory of Existing Chemical Substances | | | | |
| KECL - Korean Existing and Evaluated Chemical Substances | | | | |
| PICCS - Philippines Inventory of Chemicals and Chemical Substances | | | | |
| AICS - Australian Inventory of Chemical Substances | | | | |
| hemicals | | | | |
| | | | | |

Further information

15.2. Chemical Safety Assessment

Chemical Safety Assessment No information available

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16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3 No information available

Abbreviations, acronyms

| Legend S | Section 8 | | |
|----------|--------------------|----|-----------------------|
| + | Sensitizer | * | Skin designation |
| ** | Hazard Designation | C: | Carcinogen |
| M: | Mutagen | R: | Toxic to reproduction |

Revision Date: 2012-08-08 **Revision Note** *** Indicates updated section. This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.



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End of the safety data sheet